

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	36	((skin adj effect) same (pulse adj (width or duration)))	US-PGPUB; USPAT	OR	ON	2007/10/13 16:03
L7	7	6 and battery	US-PGPUB; USPAT	OR	ON	2007/10/13 16:02
L8	29	6 not 7	US-PGPUB; USPAT	OR	ON	2007/10/13 16:02
L10	806	((skin adj effect) same ((pulse adj (width or duration)) or seconds or microseconds or ms))	US-PGPUB; USPAT	OR	ON	2007/10/13 16:11
L11	64	10 and (battery or sulfation or desulfation)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:11
L12	5	11 and "320".clas.	US-PGPUB; USPAT	OR	ON	2007/10/13 16:08
L13	59	11 not 12	US-PGPUB; USPAT	OR	ON	2007/10/13 16:09
L14	26	"5063341"	US-PGPUB; USPAT	OR	ON	2007/10/13 16:09
L15	5	"598,133"	US-PGPUB; USPAT	OR	ON	2007/10/13 16:09
L16	276	((skin adj effect) same ((pulse adj (width or duration)) or microseconds or ms))	US-PGPUB; USPAT	OR	ON	2007/10/13 16:13
L17	24	16 and (battery or sulfation or desulfation)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:12
L18	3507	((negative or dischar\$5) with pulses) same (battery or sulfation or desulfation)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:15
L19	561	18 same ((pulse adj (width or duration)) or microseconds or ms)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:17
L20	121	19 and "320".clas.	US-PGPUB; USPAT	OR	ON	2007/10/13 16:14
L21	14	20 and (pulse adj frequency)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:14
L22	4	((negative or dischar\$5) with pulses) same (sulfation or desulfation)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:17
L23	41	((negative or dischar\$5) with pulses) and (sulfation or desulfation)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:17
L24	25	23 and ((pulse adj (width or duration)) or microseconds or ms)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:41

## EAST Search History

L25	608	(sulfation or desulfation) same ((pulse adj (width or duration)) or microseconds or ms)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:26
L27	2	25 and (lead same batter\$3)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:25
L28	20	25 and (batter\$3)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:26
L29	624	(sulfation or desulfation or reclaimer or rejenerator) same ((pulse adj (width or duration)) or microseconds or ms)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:27
L30	24	29 and (batter\$3)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:26
L31	6	(desulfat\$3 near3 pulse) same (second or microsecond)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:31
L32	2	(desulfat\$3 near3 pulse) same (width or duration)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:36
L33	0	(pulse adj charging) same (width or duration)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:36
L34	218	(pulse adj charging) same (width or duration)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:36
L35	1	34 and (sulfation or desulfation)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:36
L36	4203	(negative with pulse with generator)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:41
L37	15770	36 adn (sulfation or desulfation)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:42
L38	6	36 and (sulfation or desulfation)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:43
L39	12	(pulse with (duration or width or length)) same (sulfation or desulfation)	US-PGPUB; USPAT	OR	ON	2007/10/13 16:45
L40	54	(pulse with (duration or width or length)) and (sulfation or desulfation) and batter\$3	US-PGPUB; USPAT	OR	ON	2007/10/13 17:28
L41	7	((pulse with (duration or width or length)) same (milliseconds or microseconds or nanoseconds)) and (sulfation or desulfation) and batter\$3	US-PGPUB; USPAT	OR	ON	2007/10/13 17:31
L42	795	((pulse with (duration or width or length)) same (milliseconds or microseconds or nanoseconds)) and (lead with batter\$3)	US-PGPUB; USPAT	OR	ON	2007/10/13 17:31

## EAST Search History

L43	34	((pulse with (duration or width or length)) same (milliseconds or microseconds or nanoseconds)) same (lead with batter\$3)	US-PGPUB; USPAT	OR	ON	2007/10/13 17:38
L44	9	((pulse with (duration or width or length)) same (mu s)) same (lead with batter\$3)	US-PGPUB; USPAT	OR	ON	2007/10/13 17:39
L45	1210	((pulse with (duration or width or length)) same (ms)) and (sulfat\$3 or desulfa\$3)	US-PGPUB; USPAT	OR	ON	2007/10/13 17:39
L46	4	"6184650"	US-PGPUB; USPAT	OR	ON	2007/10/13 18:26
S1	2	(conductor with (skin adj effect)) and (remove with lead)	US-PGPUB; USPAT	OR	ON	2007/10/02 14:31
S2	69	(conductor near3 (skin adj effect)) and (remov\$3 with lead)	US-PGPUB; USPAT	OR	ON	2007/10/02 14:34
S3	2	S2 and (negative with pulse)	US-PGPUB; USPAT	OR	ON	2007/10/02 14:32
S4	82	(conductor near3 (skin adj effect)) and ((remov\$3 or eliminat\$3) with lead)	US-PGPUB; USPAT	OR	ON	2007/10/02 14:43
S5	4	S4 and (pulse same current)	US-PGPUB; USPAT	OR	ON	2007/10/02 14:44
S6	6	S4 and (pulse same negative)	US-PGPUB; USPAT	OR	ON	2007/10/02 14:43
S7	292	((conductor near3 (superficial adj effect) or (skin adj effect))) and ((remov\$3 or eliminat\$3) with lead)	US-PGPUB; USPAT	OR	ON	2007/10/02 15:15
S8	18	S7 and (pulse same negative)	US-PGPUB; USPAT	OR	ON	2007/10/02 15:08
S9	33	S7 and (pulse same current)	US-PGPUB; USPAT	OR	ON	2007/10/02 15:11
S10	13	"5648714"	US-PGPUB; USPAT	OR	ON	2007/10/02 14:55
S11	0	("2004/0056640").URPN.	USPAT	OR	ON	2007/10/02 14:59
S12	18	("4213080"   "4274044"   "4390940"   "4626983"   "4644256"   "4695935"   "4740739"   "4786851"   "4871959"   "5063341"   "5084664"   "5276393"   "5491399"   "5646505"   "5648714"   "5677612").PN. OR ("6184650").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 15:02

## EAST Search History

S13	1	"11023497"	US-PGPUB; USPAT	OR	ON	2007/10/02 15:08
S14	105	S7 and (pulse and (sulfat\$3 or desulfat\$3))	US-PGPUB; USPAT	OR	ON	2007/10/02 15:11
S15	3	S14 and (pulse same current)	US-PGPUB; USPAT	OR	ON	2007/10/02 15:12
S16	3	S14 and (pulse same negative)	US-PGPUB; USPAT	OR	ON	2007/10/02 15:12
S17	823	((conductor near3 (superficial adj effect) or (skin adj effect))) and (sulfat\$3 or desulfat\$3)	US-PGPUB; USPAT	OR	ON	2007/10/02 15:12
S18	12	S17 and (pulse same current)	US-PGPUB; USPAT	OR	ON	2007/10/02 15:14
S19	8	S17 and (pulse same negative)	US-PGPUB; USPAT	OR	ON	2007/10/02 15:13
S20	619	((conductor near3 (superficial adj effect) or (skin adj effect))) and ((remov\$3 or eliminat\$3 or reduc\$3) with lead)	US-PGPUB; USPAT	OR	ON	2007/10/02 15:15
S21	71	((conductor near3 (superficial adj effect) or (skin adj effect))) same ((remov\$3 or eliminat\$3 or reduc\$3) with lead)	US-PGPUB; USPAT	OR	ON	2007/10/02 15:16
S22	43	S21 and pulse	US-PGPUB; USPAT	OR	ON	2007/10/02 15:15
S23	14	S21 and (pulse same current)	US-PGPUB; USPAT	OR	ON	2007/10/02 15:16
S24	9	S21 and (pulse same negative)	US-PGPUB; USPAT	OR	ON	2007/10/02 15:15
S25	15	((conductor near3 (superficial adj effect) or (skin adj effect))) same ((remov\$3 or eliminat\$3 or reduc\$3) near3 lead)	US-PGPUB; USPAT	OR	ON	2007/10/02 15:16
S26	15	((conductor near3 (superficial adj effect) or (skin adj effect))) same ((remov\$3 or eliminat\$3 or reduc\$3) near3 (lead or sulfat\$3))	US-PGPUB; USPAT	OR	ON	2007/10/02 15:18
S27	104	(negative same pulse) same ((remov\$3 or eliminat\$3 or reduc\$3) near3 (lead or sulfat\$3))	US-PGPUB; USPAT	OR	ON	2007/10/02 15:18
S28	62	S27 and (pulse with (width or frequency))	US-PGPUB; USPAT	OR	ON	2007/10/02 15:19
S29	49	S28 and (pulse same current)	US-PGPUB; USPAT	OR	ON	2007/10/02 15:19

## EAST Search History

S30	4	("5652497"   "5677075").PN. OR ("6730428").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 15:20
S31	14	("4728877"   "4871959"   "5063341"   "5084664"   "5166595"   "5276393"   "5491399"   "5543701").PN. OR ("5677612").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 16:34
S32	7	(S30 or S31) and (negative same pulse)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 17:37
S33	10	(battery adj (rejuvenator or desulfator)) and (negative same pulse)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 17:46
S34	1	("2001/0019257").URPN.	USPAT	OR	ON	2007/10/02 17:41
S35	194	((battery or cell) same (rejuvenator or desulf\$7 or sulfat\$3)) and (negative same pulse same current)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 17:47
S36	70	S35 and (pulse same (width or frequency))	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 17:47
S37	63	((battery or cell) same (rejuvenator or desulf\$7 or sulfat\$3)) and (negative with pulse same current)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 17:56
S38	47	S37 and (pulse same (width or frequency))	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:28
S39	16	((battery or cell) same (rejuvenator or desulf\$7 or sulfat\$3)) same (negative with pulse same current)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:00
S40	18	((battery or cell) same (rejuvenator or desulf\$7 or sulfat\$3)) same (negative with pulse)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:08
S41	306	((battery or cell) same (rejuvenator or desulf\$7 or sulfat\$3 or ((remov\$3 or eliminat\$3) with lead))) and (negative near3 pulse)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:04
S42	83	((battery or cell) same (rejuvenator or desulf\$7 or sulfat\$3 or ((remov\$3 or eliminat\$3) with lead))) same (negative near3 pulse)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:05

## EAST Search History

S43	56	((battery or cell) same (rejuvenator or desulf\$7 or sulfat\$3 or ((remov\$3 or eliminat\$3) with lead))) same ((negative near3 pulse) same current)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:05
S44	24	((battery or cell) same (rejuvenator or desulf\$7 or sulfat\$3 or ((remov\$3 or eliminat\$3) with lead))) same ((negative near3 pulse) with current)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:06
S45	11	((battery or cell) with (rejuvenator or desulf\$7 or sulfat\$3 or ((remov\$3 or eliminat\$3) with lead))) same ((negative near3 pulse) with current)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:06
S46	22	((battery or cell) with (rejuvenator or desulf\$7 or sulfat\$3 or ((remov\$3 or eliminat\$3) with lead))) same ((negative near3 pulse) same current)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:07
S47	58	((battery or cell) same (rejuvenator or desulf\$7 or sulfat\$3 or recycling)) same (negative with pulse)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:11
S48	135	((battery or cell) same (rejuvenator or desulf\$7 or sulfat\$3 or recycling)) and (negative with pulse same current)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:27
S49	21	S48 and "320".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:11
S50	138	((battery or cell) same (rejuvenator or desulf\$7 or sulfat\$3 or recycling)) and (discharge with pulse same current)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:58
S51	77	S50 and (pulse same (width or frequency))	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:28
S52	11	S51 and "320".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:29
S53	66	S51 not S52	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 19:01

## EAST Search History

S54	14	("4728877"   "4871959"   "5063341"   "5084664"   "5166595"   "5276393"   "5491399"   "5543701").PN. OR ("5677612").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:40
S55	60	("3553561"   "3579075"   "3586955"   "3629681"   "3663939"   "3816807"   "3963976"   "4016473"   "4183080"   "4214198"   "4237409"   "4246634"   "4302714"   "4320333"   "4355275"   "4363005"   "4366430"   "4371827"   "4386308"   "4388583"   "4388584"   "4389608"   "4396881"   "4513238"   "4568869"   "4584514"   "4609860"   "4695784"   "4697136"   "4750102"   "4843299"   "4871959"   "4882663"   "4947124"   "4965507"   "5049804"   "5063341"   "5084664"   "5172044"   "5254951"   "5274321"   "5276393"   "5289102"   "5290643"   "5291118"   "5463304"   "5491399"   "5525892").PN. OR ("5648714").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 18:49
S56	2	((battery or cell) same (rejuvenator or desulf\$7 or sulfat\$3 or recycling)) and (discharge with pulse same current) and (S54 or S55)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/02 19:00